

Incremental Code Mobility with XML (1999) (Make Corrections) (3 citations)

Wolfgang Emmerich, Cecilia Mascolo, Anthony Finkelstein

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Abstract: We demonstrate how XML and related technologies can be used for code mobility at any granularity, thus overcoming the restrictions of existing approaches. By not fixing a particular granularity for mobile code, we enable complete programs as well as individual lines of code to be sent across the network. We define the concept of incremental code mobility as the ability to migrate and add, remove, or replace code fragments (i.e., increments) in a remote program. The combination of fine-grained... ([Update](#))

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.... XML tags (the analogous of program instructions) that can dynamically plug in into an XML script already executing at the destination [4]. This may amplify the enhancements in exibility and customizability brought by mobile code in the design of a distributed architecture....

...language is an intriguing possibility, one that may be realized by exploiting the new generation of scripting languages. Some researchers [4] proposed schemes where XML tags are migrated and dynamically plugged in an XML script already executing at the destination. This scheme...

Cited by: [More](#)

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```
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  title = "Incremental Code Mobility with XML",
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with XML. Technical Report 99-95, University College London, October 1999.
Submitted for publication.",
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J Suzuki, Y Yamamoto - ... IEEE International Software Engineering Standards Symposium, 1998 - doi.ieeecs.org

... access, manipulate and interchange **UML** models formatted ... published interfaces based on Document Object Model ... interfaces to manipulate the **content**, structure and ...Cited by 43 - [Related Articles](#) - [Web Search](#)[UML for XML Schema Mapping Specification - all 2 versions »](#)

G Booch, M Christerson, M Fuchs, J Koistinen - Rational Software white paper, 1999 - mainserver.state.mn.us

... significant for **document** instances, we need a way of indicating ordering in the **UML** representation. We do this by including a sequence number for **content** model ...Cited by 27 - [Related Articles](#) - [Web Search](#)[Modeling Web application architectures with UML - all 29 versions »](#)

J Conallen - Communications of the ACM, 1999 - portal.acm.org

... Stereotyped classes can be rendered in a **UML** diagram with either ... page at its simplest is an HTML **document** that contains both **content** and presentation ...Cited by 233 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)[Process-Oriented, Flexible Composition of Web Services with UML - all 5 versions »](#)

S Thöne, R Depke, G Engels - Int. Workshop on Conceptual Modeling Approaches for e- ..., 2002 - Springer

... **documents** are different although their **content** is similar ... of structural transformations on XML documents which can ... the Unified Modeling Language (**UML** [8]). The ...Cited by 37 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)[XML Conceptual Modeling Using UML - all 6 versions »](#)

R Conrad, D Scheffner, JC Freytag - Conceptual Modeling-ER, 2000 - Springer

... delete elements and **content** of any **documents** ... facilitate a more abstract view on **document** structures according ... By conceptually modeling DTDs with **UML**, the focal ...Cited by 54 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)[An experimental comparison of reading techniques for defect detection in UML design documents - all 22 versions »](#)

O Laitenberger, C Atkinson, M Schlich, K El Emam - The Journal of Systems & Software, 2000 - Elsevier

... had some experience in developing de- sign **documents** and between ... the distribution of experience in **UML**, design, and ... knowl- edge is based on the course **content** ...Cited by 57 - [Related Articles](#) - [Web Search](#)[UML as a schema language for XML based data interchange - all 8 versions »](#)D Skogan - ... Conference on The Unified Modeling Language (**UML**'99), 1999 - oasis-open.org... an XML **document** comprises of properly nested XML elements. An XML element has a name, may have attributes and a **content** model. This corresponds to **UML**'s class ...Cited by 18 - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

[Web Services Conversation Language \(WSCL\) 1.0 - all 2 versions »](#)

A Banerji, C Bartolini, D Beringer, V Chopella, K ... - W3C Note, 2002 - w3.org

... Figure 2 depicts a **UML** diagram of a simple ... the service has received one of these **documents**, it answers ... RegistrationRS, depending on the type and content of the ...
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J Suzuki, Y Yamamoto - ... IEEE International Software Engineering Standards Symposium, 1998 - doi.ieeeecs.org

 ... After that, the client application can directly communicate the instance to access its **content**. ... **UML** Summary, OMG **document** number: ad/97-08-03. ...

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K Hornbæk, E Frækjær - Proceedings of the SIGCHI conference on Human factors in ..., 2001 - portal.acm.org

 ... a **document** to learn the main **content** of that ... oriented systems development object oriented **uml** in the ... four figures, and included one **document** with tables and ...

 Cited by 54 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)
[UML as a schema language for XML based data interchange - all 8 versions »](#)

D Skogan - ... Conference on The Unified Modeling Language (UML'99), 1999 - oasis-open.org

 ... RM.Road.intersection)?> Notice the optional **content** model (?) of ... XML based schema model **documents**, which enables ... **UML** is a general-purpose modeling language for ...

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[The software concordance: a new software document management environment - all 2 versions »](#)

TN Nguyen, EV Munson - Proceedings of the 21st annual international conference on ..., 2003 - portal.acm.org

 ... program source code, multimedia documen- tation and **UML** diagrams in ... a). The node structure of the **document** tree for ... node 4 was deleted and the **content** of node ...

 Cited by 16 - [Related Articles](#) - [Web Search](#)
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M Erdmann, R Studer - Proceedings of the 12th International Workshop on Knowledge ..., 1999 - oasis-open.org

 ... Although HTML is the major language for presenting information in the web the **document** structure seldom mirrors the semantic **content** sufficiently. ...

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 ... OO features, and is not limited to **UML**. ... by their similarities and **differences**, structuring the ... encourages the separation of **document** **content** from presentation. ...

[Cited by 21](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Using UML to define XML document types - all 5 versions »](#)

WE Kimber, J Heintz - Markup Languages: Theory and Practice, 2000 - ingentaconnect.com

... Using UML to define XML document types 301 ... The content tokens of the model group are denoted by having classes that are a subtype of the model group class ...

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DE Baisley - US Patent 6,502,112, 2002 - Google Patents

 ... UML is the starting point where object-oriented discipline ... are not part of a **document's** semantic **content**. ... each object represented in the **document** and capturing ...

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 ... is set to b. Note that only **difference** between **content** slots 5 ... Users edit an XML **document** or a Java program in the ... Users can also edit their UML diagrams as in ...

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CH Ngai, PW Chan, E Yau, MR Lyu - Computer Software and Applications Conference, 2002. COMPSAC ..., 2002 - ieexplore.ieee.org

 ... Figure 5. UML-based ontology ... logical and structural components of an XML **document** are represented as ... show element/attribute names or the text **content** and their ...

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 ... the class diagram notation of the Unified Modeling Language (UML). ... The **content** of this paper is organized as follows ... used to define concepts of a **document** at a ...

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 ... users are able to experience this engaging **content** immediately using a ... The ontology of an XML **document** is represented ... is much more compact than an UML model or ...

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 ... This DHTML **content** can be displayed only on Microsoft Internet ... Managing the software design documents with XML ... software design models: quartet of UML, XML, DOM ...

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... Another **difference** is the ... When a CGI script is requested the server, instead of just returning the **contents** of the file ... **UML Document Set**, Version 1.1 September ...

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... based on the UXF DTD [29] for UML and de ... languages and how these interpreters implement incremental code updates ... parse tree for program in inc Document inc=parser ...

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... However, incremental development of layered state diagrams ... Reuse and Evolution in

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J Linvald, K Østerbye - Second Workshop on Domain Specific Visual Languages, OOPSLA, 2002 - citeseer.ist.psu.edu

... notation is inspired by UML, but incorporates... (Update) Active bibliography (related

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S Burmester, H Giese, M Hirsch, D Schilling - ... on Specification and Validation of UML Models for Real Time ..., 2004 - upb.de

... related FUJABA Real-Time Tool Suite 1 therefore support a rigorous system design and formal verification of UML/RT models to enable the incremental design of ...

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... in abstraction, enabling developers to visualize, specify, construct, **document**,
and reason ... ultimately led to the Unified Modeling Language (UML) were well ...

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... Process creation is thus both **incremental** and collaborative. ... tools as described here

and **creating** process elements ... and Repositories with XML and **XSLT**", 4 th ...

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A Canals, Y Cassaing, A Jammes, L Pomiès, E Roblet - Journal of Object Technology, 2003 - [jot.fm](#)

... easy understanding, although the process is naturally iterative and **incremental**. ...

transformations) can be written using **XSL** in order to make practical use ...

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[First experiments with the ATL model transformation language: Transforming XSLT into XQuery - all 3 versions »](#)

J Bézin, G Dupe, F Jouault, G Pitette, JE Rougui - 2nd OOPSLA Workshop on Generative Techniques in the context ..., 2003 - [softmetaware.com](#)

... formalisms of the XML space (**XSLT** and XQuery ... transformation language can help to make views more useful: • Support for **incremental** transformations makes ...

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should make the predicate ... step following the iterative and **incremental** RUP [5 ...

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K Czarnecki, S Helsen - Proceedings of the 2nd OOPSLA Workshop on Generative ..., 2003 - polaris.lcc.uma.es

... in Java and provides so-called **incremental** copiers that ... by the pass-by-value semantics

of **XSLT** and the ... n:1, and n:m). Finally, they make some recommendations ...

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... How do I make my compiler **incremental**? ... What is an AST? How do I **create** and examine an AST? ... **UML** diagrams are used to explain object relationships. ...

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Implementing Incremental Code Migration with XML

(2000) (Make Corrections) (8 citations)

Wolfgang Emmerich, Cecilia Mascolo, Anthony Finkelstein
International Conference on Software Engineering

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Abstract: We demonstrate how XML and related technologies can be used for code mobility at any granularity, thus overcoming the restrictions of existing approaches. By not fixing a particular granularity for mobile code, we enable complete programs as well as individual lines of code to be sent across the network. We define the concept of incremental code mobility as the ability to migrate and add, remove, or replace code fragments (i.e., increments) in a remote program. The combination of fine-grained... ([Update](#))

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...the parse tree and translate each visited node into primitives available from some appropriate abstract machine. As described in [9] and [14] our approach (XMILE) also assists in distributing the same policy or policy fragment to many different interpreters. The XMILE...

... areas, Remote Evaluation can be used in other areas such as server management [Knight1999] and active network programming [Emmerich2000]. Remote evaluation presents two main security issues, each of which must be addressed by the developer of a distributed...

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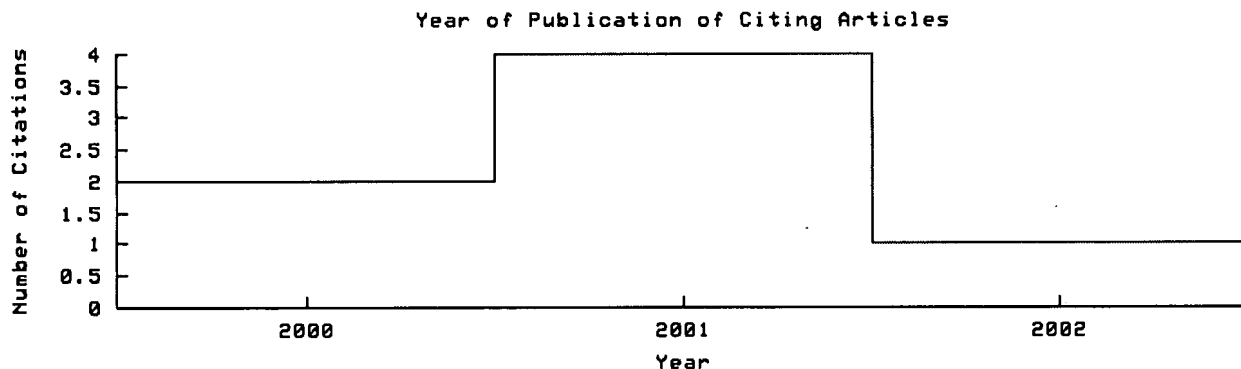
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  author = "Wolfgang Emmerich and Cecilia Mascolo and Anthony Finkelstein",
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  pages = "397-406",
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  url = "citeseer.ist.psu.edu/emmerich00implementing.html" }
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L2	27	("6330569").URPN.	USPAT	OR	OFF	2007/06/12 13:44
L3	45	(("6393442" "6480860" "6917929" "7013331" "6618805"),pn. or "20040205162" "2005055595" "20040010786" "20020083097" "20020122054" "20010049743" "20020002567" "20020069224" "20020184269" "20020120652" "20020046235" "20020194220" "20020099735" "20020123993" "20020049790" "20030014447" "20010037404" "20040205162" "20050055595" "20040010786") and (xml or xsl or xslt or style or layout or uml or "unified modeling language" or actor or scenario or scenes or "use case" or delta or differenc\$3 or diff or chang\$3 or edit\$3 or modification or modify\$3 or updat\$3 or upgrad\$3 or new\$3 or add\$3 or addition\$4 or version\$3 or patch\$3 or transform\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/12 14:03
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L6	66	(UML or "Unified modeling language") near5 (updat\$3 or upgrad\$3 or version\$3 or delta or incremental\$2 or revision\$3)	USPAT	OR	ON	2007/06/12 14:53
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L8	6	717/137.ccls. and (UML or "Unified modeling language")	USPAT	OR	ON	2007/06/12 14:54
L9	7	717/121.ccls. and (UML or "Unified modeling language")	USPAT	OR	ON	2007/06/12 14:54
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